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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/848,533	05/03/2001	Young-Hoon Park	YPL-0019	7524	
7590 11/38/2003		003	EXAM	EXAMINER	
Daniel F. Drexler 55 Griffin South Road			MARKOFF, A	MARKOFF, ALEXANDER	
Bloomfield, C			ARTUNIT	PAPER NUMBER	
			1746		

DATE MAILED: 11/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/848,533	PARK, YOUNG-HOON			
Office Action Summary		Examiner	Art Unit			
		Alexander Markoff	1746			
Period fo	The MAILING DATE of this commun or Reply	ication appears on the cover sheet wi	th the correspondence address			
THE - Exter after - If NO - Failu - Any	ORTENED STATUTORY PERIOD F- MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty (3) period for reply is specified above, the maximum sta- re to reply within the set or extended period for reply epty received by the Office later than three months a ad patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a re unication. 0) days, a reply within the statutory minimum of thirt atutory period will apply and will expire SIX (6) MCN will, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. The from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) file	ed on <u>19 August 2003</u> .				
2a)□	This action is FINAL . 2	b)⊠ This action is non-final.				
3)	Since this application is in condition closed in accordance with the practi					
Disposit	ion of Claims					
4)🖂	Claim(s) 15-28 is/are pending in the	application.				
	4a) Of the above claim(s) is/a	re withdrawn from consideration.				
5)	Claim(s) is/are allowed.					
	Claim(s) <u>15-28</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8)[Claim(s) are subject to restrict	ction and/or election requirement.				
Applicat	ion Papers					
	The specification is objected to by the					
10)⊠	The drawing(s) filed on 03 May 2001	ˈis/are: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.			
	Applicant may not request that any obje	ction to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
	• • • • • • • • • • • • • • • • • • • •	the correction is required if the drawing				
11)	The oath or declaration is objected to	by the Examiner. Note the attached	d Office Action or form PTO-152.			
Priority I	under 35 U.S.C. §§ 119 and 120					
	Acknowledgment is made of a claim ☑ All b) ☐ Some * c) ☐ None of:	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
	3. Copies of the certified copies application from the Internation	documents have been received in A of the priority documents have been anal Bureau (PCT Rule 17.2(a)).	received in this National Stage			
13) 🗌 / s 3		for domestic priority under 35 U.S.C. ad in the first sentence of the specific	§ 119(e) (to a provisional application) ation or in an Application Data Sheet.			
14) 🗆 🗸	Acknowledgment is made of a claim feference was included in the first sen	or domestic priority under 35 U.S.C.	§§ 120 and/or 121 since a specific			
Attachmer	it(s)					
1) Notice	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (F	PTO-948)	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Election/Restrictions

2. Applicant's election without traverse of claims 15-28 and cancellation of nonelected claims 1-14 in Paper filed on 08/19/03 is acknowledged.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 15-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims require performing cleaning of film deposition equipment comprising a reactor in a state where no wafers are received within the reactor. At the same time the claims require spraying a mixture of a cleaning gas and an inert gas onto the wafer. It is noted that the specification requires the same. See page 2, lines 19-29. The claimed process could not be performed. An ordinary artisan would not be able to spay a gas onto the wafer, which is not presented.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent 5,988,187 is cited to show the state of the prior art with respect to cleaning deposition equipment. US Patent 6,573,184 is made of the record. This patent is issued to the applicant and claims a process, which comprises spraying different gasses in ALD thin film deposition equipment.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 703-308-7545. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P Gulakowski can be reached on 703-308-4333.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703--308-0651.

Alexander Markoff Primary Examiner Art Unit 1746

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ALEXANDER MARKOFF PRIMARY EXAMINER